

ReNew

March/April 2017

C A N A D A

The Infrastructure Magazine

+ Top100 Projects:
Celebrating
\$186 Billion

+ Reducing
Emissions in
Construction

BUILDING 2067

**INFRASTRUCTURE THAT
STANDS THE TEST OF TIME**

renewcanada.net



8



12



24



28



33

ReNew

CANADA

The Infrastructure Magazine

MARCH/APRIL 2017

TRANSPORTATION

8 The Pearson Solution
Examining the Greater Toronto Airport Authority's solution for increasing transit ridership to Pearson International Airport. *By Andrew Macklin*

FINANCE

12 Building for 2067
Understanding why infrastructure designed today must consider the future of the asset. *By Lou Serafini Jr.*

GREEN CONSTRUCTION

15 Cleaning Big Iron
The evolution of engine technology for heavy construction equipment has the ability to significantly reduce jobsite carbon emissions. *By Carroll McCormick*

18 Building Energy Efficiency A closer look at how performance contracting has allowed buildings to undergo extensive upgrades without upfront investment. *By Allison Annesley*

WATER/WASTEWATER

24 Rethinking Stormwater The Smart Prosperity Institute analyses new solutions for providing sustainable stormwater management in Canada. *By Sara Jane O'Neill and Stephanie Cairns*

PROJECT MANAGEMENT

28 On Time & On Budget
A new report from the Canadian Centre for Economic Analysis shows the overall value of delivering P3 projects as contracted. *By Matt DesRosiers and Paul Smetanin*

ASSET MANAGEMENT

31 A Green Priority
Why municipalities across Canada should be considering green infrastructure as part of their overall asset management programs. *By Michelle Sawka and Steven Peck*

33 Reviewing Asset Management

New research from the University of Toronto reviews municipal successes in developing road asset management programs. *By Tamer E. El-Diraby, Sherif Kinawy, and S. Madeh Piryonesi*

TRANSIT INFRASTRUCTURE

36 Evergreen LRT
The completion of the Evergreen LRT in B.C. marks a significant step forward in the evolution of transit in the Greater Vancouver Area. *By Andrew Macklin*

DEPARTMENTS

- 4 Editor's Note** *Andrew Macklin* discusses why the move to a low-carbon agenda must include a monetary value for carbon emissions.
- 5 Front** *Andy Manahan* on the flaws with CUPE's negative analysis of the Canadian Infrastructure Bank.
- 22 Panorama** *Falling Ice*—this bridge has a solution.
- 37 Top100 Projects** We had a party to celebrate the biggest projects in Canada... take a look at who was there!
- 40 People & Events** Appointments, company news, and event reports.
- 42 Closing Shot** *Todd Latham* wants to change the constitution and free municipalities.



All back issues of ReNew Canada are available for download at library.actualmedia.ca